



**U.S. Department of Energy
Energy Efficiency and
Renewable Energy**

Bringing you a prosperous future where energy
is clean, abundant, reliable, and affordable

INDUSTRIAL TECHNOLOGIES PROGRAM

Improve Motor System Efficiency for a Broader Range of Motors with Motor- Master+ International

- *Are your plant motor systems running at optimal energy efficiency?*
- *Do you know how to cost-effectively determine whether to repair or replace a motor?*
- *Do you need a replacement for a metric (IEC) motor installed on your imported equipment?*
- *Does your overseas subsidiary need assistance in identifying and purchasing high or improved efficiency motors?*

Available at no charge, MotorMaster+ International is designed to support motor systems improvement planning at industrial

facilities by identifying the most cost-effective choice when deciding to repair or replace older motor models. MotorMaster+ International includes many of the capabilities and features of MotorMaster+. With MotorMaster+ International you can evaluate repair/replacement options for a broader range of motors, including those tested under the Institute of Electrical and Electronic Engineers (IEEE) standard, and those tested using the International Electrotechnical Commission (IEC) methodology.

MotorMaster+ International has multi-language capability (with the current release supporting Spanish, French and English) and allows the user to conduct economic analyses

using various currencies. The software also allows users to insert applicable country or regional motor full-load minimum efficiency standards, and country-specific motor repair and installation cost defaults.



Figure 1: MotorMaster+ International offers multi-language capability. Currently, it supports Spanish, French, and English.



MotorMaster+ International helps international plants manage their motor inventory and make cost-effective decisions when repairing and replacing motor systems.

To download the MotorMaster+ International Tool and other free software tools or participate in an on-line tool forum, visit us at:

www.eere.energy.gov/industry/bestpractices/software.html

To learn more, contact the EERE Information Center (1-877-337-3463) or visit the BestPractices web site at www.eere.energy.gov/industry/bestpractices

Tool Description

MotorMaster+ International can display motor performance and technical data that can help to optimize a drive system. Data is available for both 60 Hz National Electrical Manufacturers Association (NEMA) and 50 Hz metric or International Electrotechnical Commission (IEC) motors.

The current version of the software contains manufacturer's databases for over 25,000 NEMA motors and over 7,200 IEC motors. Full- and part-load efficiency values are taken in accordance with either the NEMA IEEE 112 or IEC 60034-2 testing standards. The software also displays minimum full-load efficiency standards for labeling schemes adopted by the National Electrical Manufacturers Association (NEMA) and the European Committee of Manufacturers of Electrical Machines and Power Electronics (CEMEP).

MotorMaster+ International determines energy and dollar savings for motor selection decisions while taking into account such variables as motor efficiency at its load point, purchase price, energy costs, operating

hours, load factor, and utility rebates. The software tool's analysis features include selection of the "best available" motor for a given application, and determination of energy savings, demand reductions, dollar savings, greenhouse gas emission reductions, simple payback, cash flows, and after-tax rate-of-return on investment.

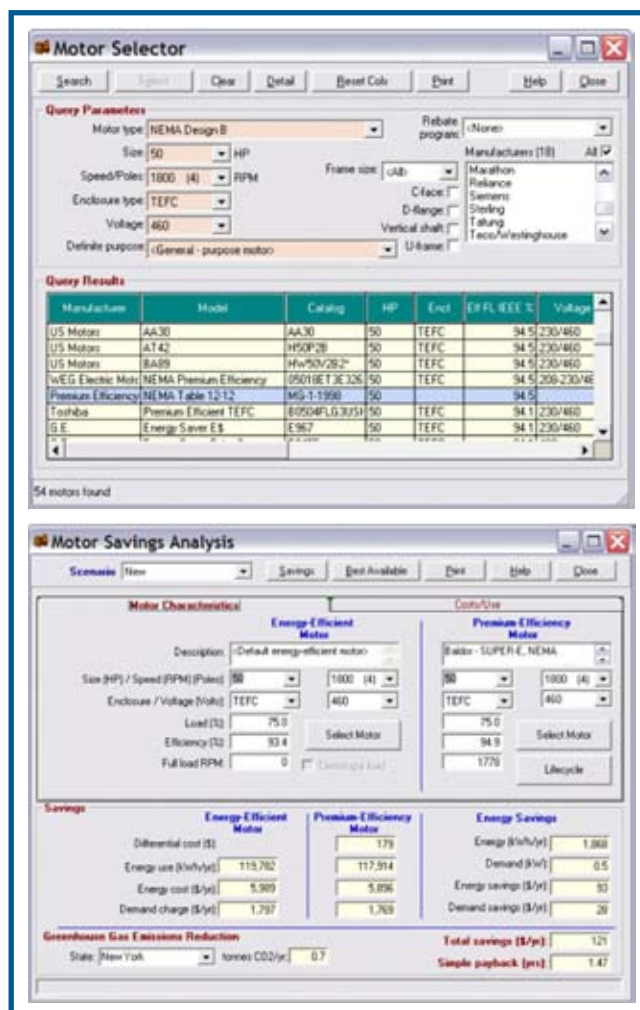


Figure 2: MotorMaster+ International provides an energy savings analysis feature to help users determine the "best available" motor to fit their needs.

MotorMaster+ International was developed for the U.S. Department of Energy, with sponsorship from Natural Resources Canada, Corporacion Nacional del Cobre de Chile (Codelco), European Community - JRC, UK Action Energy (Carbon Trust), and the International Copper Association.

A Strong Energy Portfolio for a Strong America

Energy efficiency and clean, renewable energy will mean a stronger economy, a cleaner environment, and greater energy independence for America. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy invests in a diverse portfolio of energy technologies.

For more information contact:
EERE Information Center
1-877-EERE-INF (1-877-337-3463)
www.eere.energy.gov



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